

# Notice of Allowability

Application No.

09/708,470

Examiner

Ayal I Sharon

Applicant(s)

SATO ET AL.

Art Unit

2123

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Applicant's Interview Summary filed 11/3/2004.
2. ☒ The allowed claim(s) is/are 1,2,4-20 and 22-36.
3. ☒ The drawings filed on 09 November 2000 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

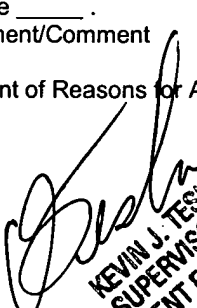
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

- |   |  |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|   | 9. <input type="checkbox"/> Other _____.   |

  
KEVIN J. TESKA  
SUPERVISORY  
PATENT EXAMINER

### EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE

1. The following is an Examiner's statement of reasons for the indication of allowable subject matter. The closest prior art of record is:
  - Purks, U.S. Patent 5,481,695. (Henceforth referred to as "**Purks**").
  - Carlson et al., U.S. Patent 6,128,769. (Henceforth referred to as "**Carlson**").
2. The Examiner of the present application ("the Examiner"), Ayal Sharon, conducted an interview with Applicant's Representative, Tom Brown, Reg. No. 44,450 on 10/7/2004. Examiner Fred Ferris also participated in this interview.
3. Independent Claims 1 and 19 were discussed in the interview. As stated in both the Examiner's Interview Summary, dated 10/14/2004, and the Applicant's Interview Summary, dated 11/03/2004, the Examiners agreed with the Applicant's Representative that neither Carlson nor Purks, either individually nor in combination, teach all of the limitations of independent claims 1 and 19.
4. More specifically, as argued by the Applicant in the Applicant's Interview Summary (p.3, para.2-3, dated 11/03/2004), neither Carlson nor Purks, either individually nor in combination, teach the following limitations of claim 1 in combination with the other limitations of claim 1:
  - "... synthesizing with generation timings of the noise waveforms taken into consideration the signal waveform and the noise waveforms calculated for each of the plurality of kinds of noise ..."
  - "... wherein the noise checking is performed, a maximum delay time and a minimum delay time of the noticed wiring line are extracted from the noise

composite waveform, and overdelay/racing checking for the noticed wiring line is performed using the maximum delay time and the minimum delay time.”

5. In addition, neither Carlson nor Purks, either individually nor in combination, teach the following limitations of claim 19 in combination with the other limitations of claim 19:

“... a noise waveform synthesis section (5) for synthesizing with generation timings of the noise waveforms taken into consideration the signal waveform and the noise waveforms calculated by simulation section (4) ...”

“... wherein said noise checking section (6) extracts a maximum delay time and a minimum delay time of the noticed wiring line from the noise composite waveform and performs overdelay/racing checking for the noticed wiring line using the maximum delay time and the minimum delay time.”

6. Independent claims 1 and 19, and their dependent claims 2, 4-18, 20, and 22-36 are therefore allowed.
7. Claims 3 and 21 were cancelled by the applicant in the preliminary amendment filed 2/6/2004.
8. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

***Correspondence Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ayal I. Sharon whose telephone number is (571) 272-3714. The examiner can normally be reached on Monday through Thursday, and the first Friday of a biweek, 8:30 am – 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Teska can be reached at (571) 272-3716.

Any response to this office action should be faxed to (703) 872-9306 or mailed to:

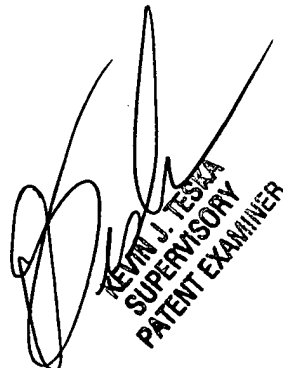
Director of Patents and Trademarks  
Washington, DC 20231

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Tech Center 2100 Receptionist, whose telephone number is (571) 272-2100.

Ayal I. Sharon

Art Unit 2123

November 30, 2004



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